

### Abstract of the Invention

**[0073]** An adjoint network method is used to determine the sensitivity of an electronic circuit model to variations in circuit components. The effects of nonlinear circuit elements are represented by augmenting the elements of the adjoint network. In particular, deviations away from linearity are represented in the original circuit by "fictitious" voltage sources. These voltage sources will map into "fictitious" current sources in the adjoint network. These sources are not static; they are directly proportional to the adjoint current through the branch corresponding to the nonlinear element. As such they may be classified as current-controlled current sources and are sometimes referred to as "correction" sources.